(19) World Intellectual Property Organization

International Bureau -



(43) International Publication Date 28 July 2005 (28.07.2005)

PCT

(10) International Publication Number WO 2005/068341 A1

(51) International Patent Classification7:

B66B 31/02

(21) International Application Number:

PCT/KR2005/000111

(22) International Filing Date: 13 January 2005 (13.01.2005)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data:

10-2004-0003204 16 January 2004 (16.01.2004)

- (71) Applicant (for all designated States except US): OTIS EL-EVATOR COMPANY [US/US]; Ten Farm Springs, Farmington, CT 06032 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): LEE, Jin Koo [KR/KR]; Mokryeon Apt. 805-605, 1053-4 Hogye-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-080 (KR).
- (74) Agent: AN, Kook Chan; Hannuri Bldg. 219 Nacja-dong, Chongno-gu, Seoul 110-053 (KR).

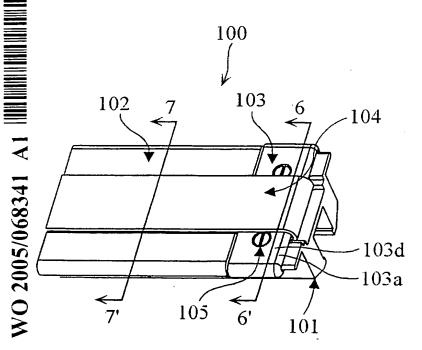
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT. AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO. CR. CU. CZ. DE. DK. DM. DZ. EC. EE. EG. ES. FL. GB. GD. GE. GH. GM. HR. HU. ID, IL. IN. IS. JP. KE. KG. KP, KZ. LC. LK. LR. LS. LT. LU, LV. MA. MD. MG. MK. MN, MW. MX. MZ. NA. NI. NO, NZ. OM. PG. PH. PL. PT. RO. RU. SC. SD. SE. SG. SK. SL. SY. TJ. TM, TN, TR. TT, TZ. UA. UG. US. UZ. VC. VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW. GH. GM. KE, LS. MW. MZ, NA, SD, SL, SZ, TZ, UG, ZM. ZW). Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European (AT. BE. BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR. GB, GR. HU. IE. IS. IT. LT. LU. MC. NL. PL. PT. RO. SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NEWEL GUIDE FOR SUPPORTING A HANDRAIL TRAVELING OVER A NEWEL



(57) Abstract: The present invention provides a newel guide for supporting a handrail, comprising: a friction belt having a closed curved shape and including an outer surface in contact with an internal surface of the handrail; and a support member for supporting an inner surface of the friction belt to allow the friction belt to make an endless continuous movement around the support member. The support member includes a newel frame having a pair of plate members at its upper portion, wherein the plate members are separated from each other and extend in a longitudinal direction of the newel frame. An intermediate guide is mounted on the pair of plate members and has a depressed surface in contact with the inner surface of the friction belt. A pair of joint guides is mounted to the newel frame adjacent to both ends of the intermediate guide, wherein an end of the joint guide provides a support surface for supporting the endless continuous movement of the friction belt.